NOTES:

- 1. THE INFORMATION DEPICTED ON THIS PLAN HAS BEEN COMPILED FROM THE TOWN OF ARLINGTON GIS SYSTEM
- 2. LAND USE WITHIN 500 FEET OF THE SUBJECT PROPERTY IS PRIMARILY SINGLE FAMILY DWELLINGS

1021 & 1025 MASSACHUSETTS AVENUE

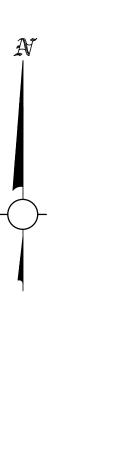
(1021 ASSESSORS MAP 55 LOT 19)

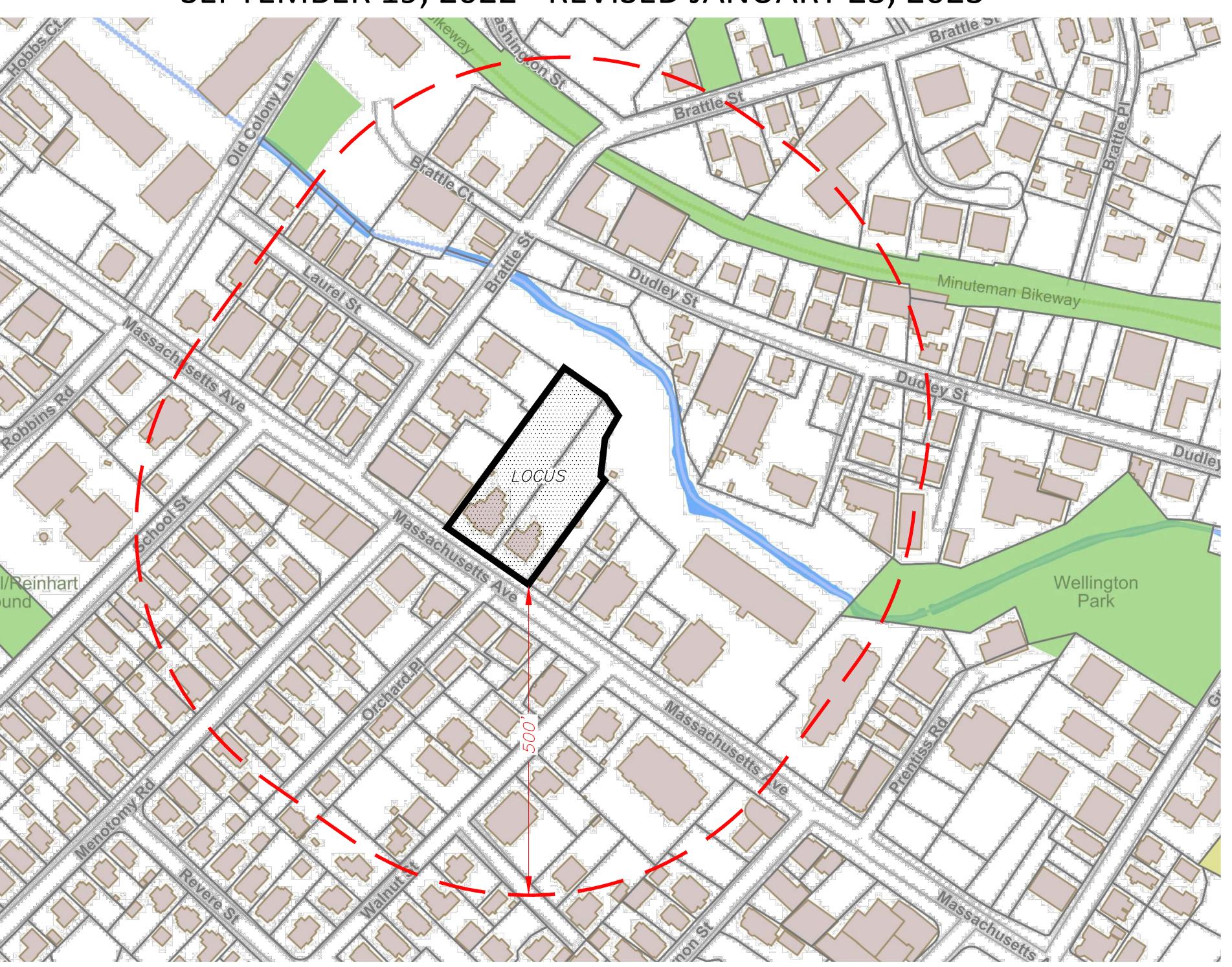
(1025 ASSESSORS MAP 55 LOT 20)

COMPREHENSIVE PERMIT PLAN SET

(TO ACCOMPANY A ZONING BOARD OF APPEALS APPLICATION)
LOCATED IN ARLINGTON, MA

SEPTEMBER 19, 2022 - REVISED JANUARY 23, 2023









SHEET INDEX

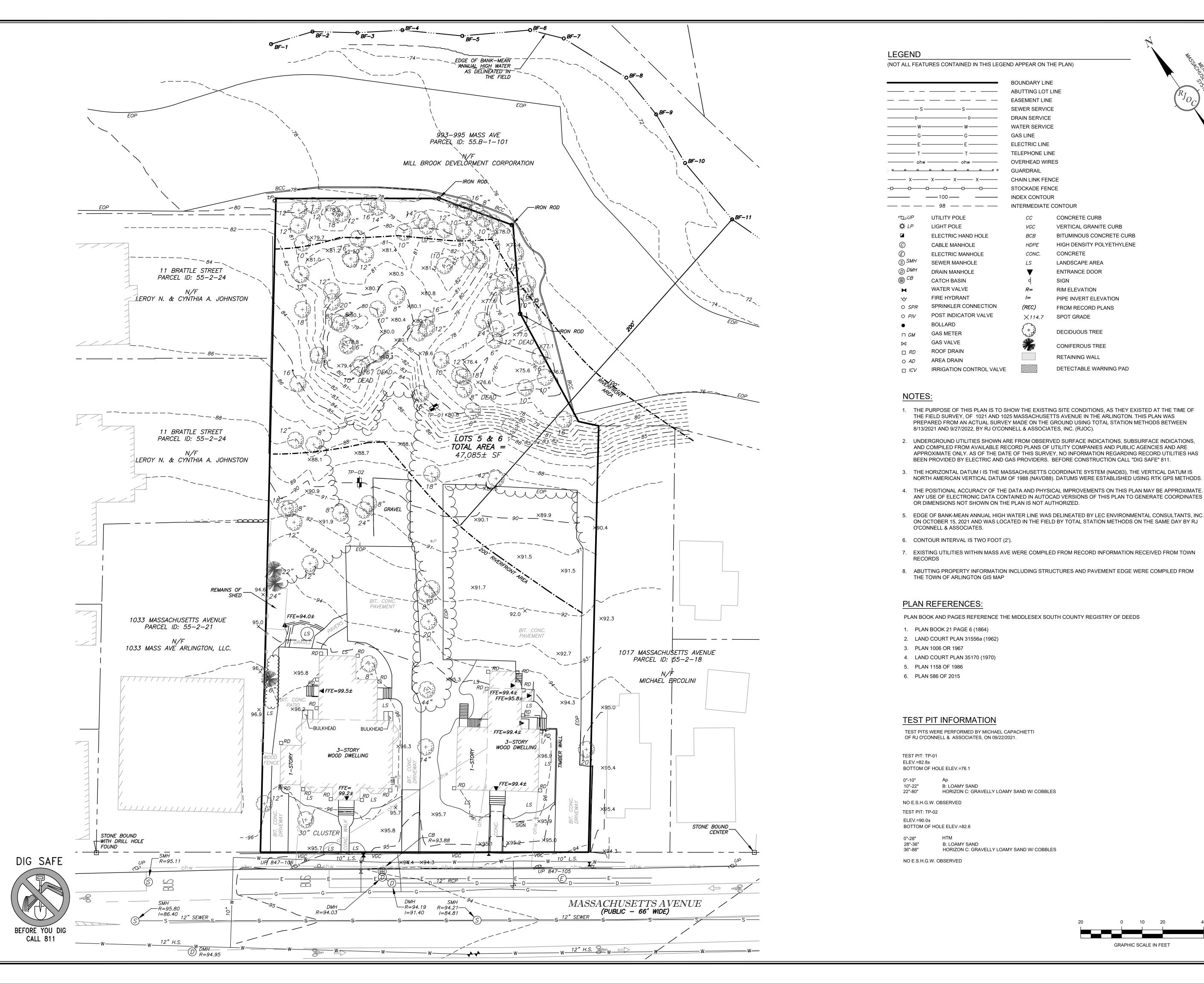
- 1. COVER SHEET
- 2. EXISTING CONDITIONS PLAN
- 3. SITE DEMOLITION PLAN
- 4. SITE LAYOUT AND MATERIALS PLAN
- 5. EROSION CONTROL/
 CONSTRUCTION STORMWATER PLAN
- 6. SITE GRADING AND UTILITY PLAN
- 7. SITE UTILITY PLAN
- 8. EMERGENCY ACCESS PLAN
- 9. SITE DETAILS I
- 10. SITE DETAILS II

APPLICANT:

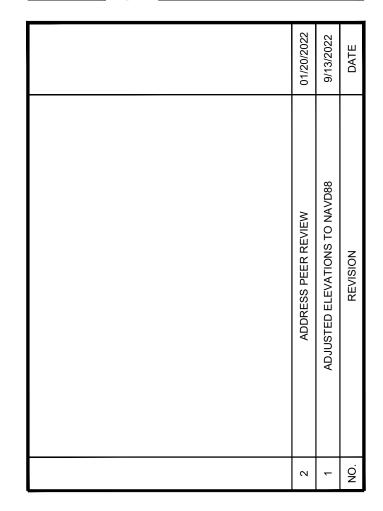
MAJ INVESTMENT, LLC 13 WHEELING AVENUE WOBURN, MA 01801

LOCUS CONTEXT MAP

PERMITTING SET







Record Owner: 1021 MASSACHUSETTS AVENUE JOHN H. CHAGLASSIAN 1021 ARLINGTON, MA 02476 BK 72517 / PG 224

1025 - 1027 MASSACHUSETTS AVENUE STEPHEN B. GERSH 21 KING'S COURT ESSEX, MA 01929 BK 57969 / PG 298

Location:
PARCEL ID:
1021 MASSACHUSETTS AVENUE
MAP 055 BLOCK 002 LOT 019

1025 - 1027 MASSACHUSETTS AVENUE MAP 055 BLOCK 002 LOT 020

ARLINGTON, MA

PREPARED BY:

RJO'CONNELL
& ASSOCIATES, INC.
CIVIL ENGINEERS, SURVEYORS & LAND PLANNERS

80 MONTVALE AVENUE, SUITE 201 STONEHAM, MA 02180 PHONE: 781.279.0180 RJOCONNELL.COM

PREPARED FOR:

MAJ INVESTMENT, LLC.

13 WHEELING AVENUE WOBURN, MA 01801

PROJECT NAME

1021 & 1025 MASSACHUSETTS AVE

ARLINGTON, MA

AL



PROFESSIONAL LAND SURVEYOR FOR RJ O'CONNELL & ASSOCIATES, INC	DATE
DRAWN BY:	RJK / WJH
REVIEWED BY:	ML
SCALE:	1" = 20'
FIELD CREW:	RJK / CJR
FIELD BOOK:	FIELD BOOK 40 / PG 5
DATE:	12/09/2021
DRAWING NAME:	

EXISTING CONDITIONS PLAN

DRAWING NUMBER:

PROJECT NUMBER:

2 OF10

21583

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NOTES:

- 1. UNDERGROUND UTILITIES SHOWN ARE FROM OBSERVED SURFACE INDICATIONS, SUBSURFACE INDICATIONS, AND COMPILED FROM AVAILABLE RECORD PLANS OF UTILITY COMPANIES AND PUBLIC AGENCIES AND ARE APPROXIMATE ONLY. AS OF THE DATE OF THIS SURVEY, NO INFORMATION REGARDING RECORD UTILITIES HAS BEEN PROVIDED BY ELECTRIC AND GAS PROVIDERS. BEFORE CONSTRUCTION CALL "DIG SAFE" 811.
- 2. THE HORIZONTAL DATUM I IS THE MASSACHUSETTS COORDINATE SYSTEM (NAD83), THE VERTICAL DATUM IS
- 3. THE POSITIONAL ACCURACY OF THE DATA AND PHYSICAL IMPROVEMENTS ON THIS PLAN MAY BE APPROXIMATE ANY USE OF ELECTRONIC DATA CONTAINED IN AUTOCAD VERSIONS OF THIS PLAN TO GENERATE COORDINATES OR DIMENSIONS NOT SHOWN ON THE PLAN IS NOT AUTHORIZED.
- 4. EDGE OF BANK-MEAN ANNUAL HIGH WATER LINE WAS DELINEATED BY LEC ENVIRONMENTAL CONSULTANTS, INC. ON OCTOBER 15, 2021 AND WAS LOCATED IN THE FIELD BY TOTAL STATION METHODS ON THE SAME DAY BY RJ O'CONNELL & ASSOCIATES.

CONCRETE CURB

LANDSCAPE AREA

DECIDUOUS TREE

CONIFEROUS TREE

RETAINING WALL

FROM RECORD PLANS

DETECTABLE WARNING PAD

HANDICAP

CONCRETE

DOOR

NUMBER

SIGN

VERTICAL GRANITE CURB BITUMINOUS CONCRETE CURB

HIGH DENSITY POLYETHYLENE

PARKING COUNT / COMPACT

- 5. CONTOUR INTERVAL IS TWO FOOT (2').
- 6. ALL EXISTING UTILITIES ARE REQUIRED TO BE CUT AND CAPPED AT THE EXISTING MAIN CONNECTIONS.

LEGEND

(NOT ALL FEATURES CONTAINED IN THIS LEGEND APPEAR ON THE PLAN)

BOUNDARY LINE ABUTTING PROPERTY LINE SEWER SERVICE DRAIN SERVICE WATER SERVICE GAS LINE ELECTRIC LINE TELEPHONE LINE OVERHEAD WIRES CHAIN LINK FENCE

STOCKADE FENCE UTILITY POLE LIGHT POLE ELECTRIC HAND HOLE CABLE MANHOLE SEWER MANHOLE DRAIN MANHOLE CATCH BASIN WATER VALVE FIRE HYDRANT SPRINKLER CONNECTION POST INDICATOR VALVE BOLLARD **GAS METER** GAS VALVE **ROOF DRAIN** IRRIGATION CONTROL VALVE SPOT GRADE

PROPOSED TO BE REMOVED

PROPOSED FILTERMITT

EXISTING TREE PROPOSED TO BE REMOVED

FOR EROSION CONTROL MEASURES SEE SHEET 5

79 EXISTING TREES TO BE REMOVED

SITE DEMOLITION PLAN
LOCATED IN
ARLINGTON, MA
(MIDDLESEX COUNTY)

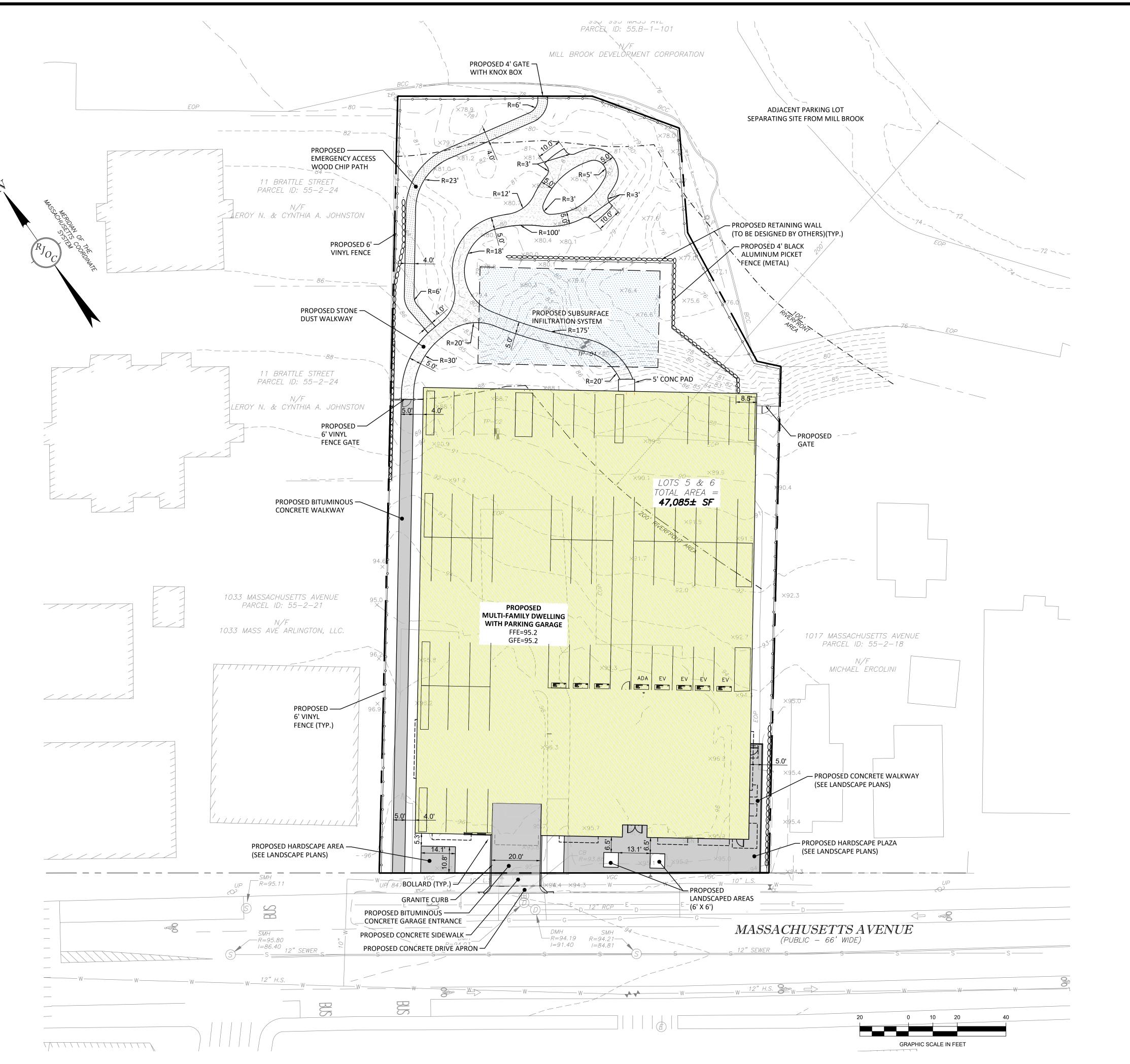
ATRIOT Engineeri

102

SHEET

3 OF 10

PERMITTING SET



FOR EROSION CONTROL MEASURES AND LIMIT OF WORK SEE SHEET 5

FOR ADDITIONAL HARDSCAPE **INFORMATION SEE** LANDSCAPE DESIGN PLANS

LAYOUT AND MATERIALS P

LOCATED IN

ARLINGTON, MA

(MIDDLESEX COUNTY)

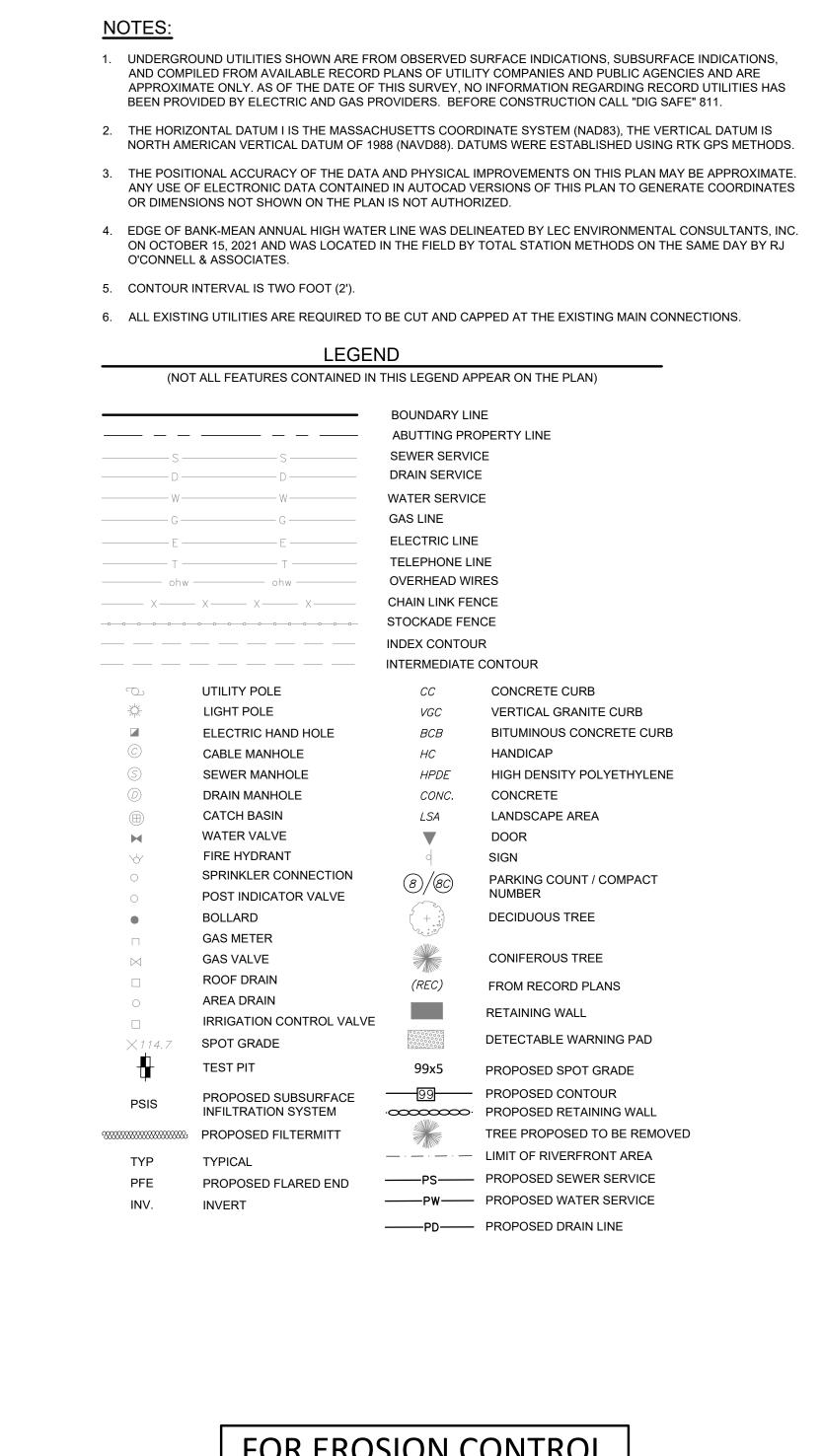
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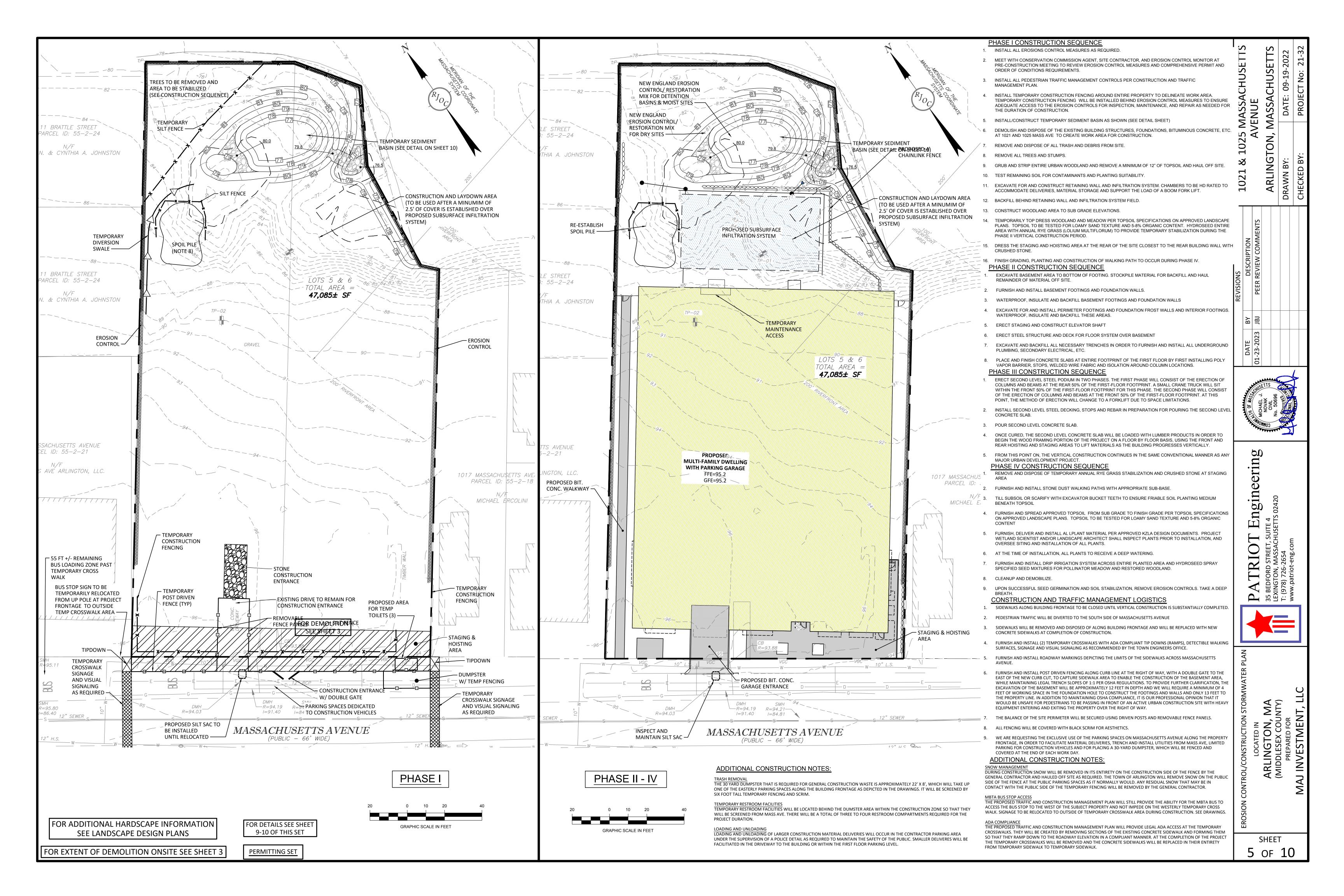
5 MASSACHUSET

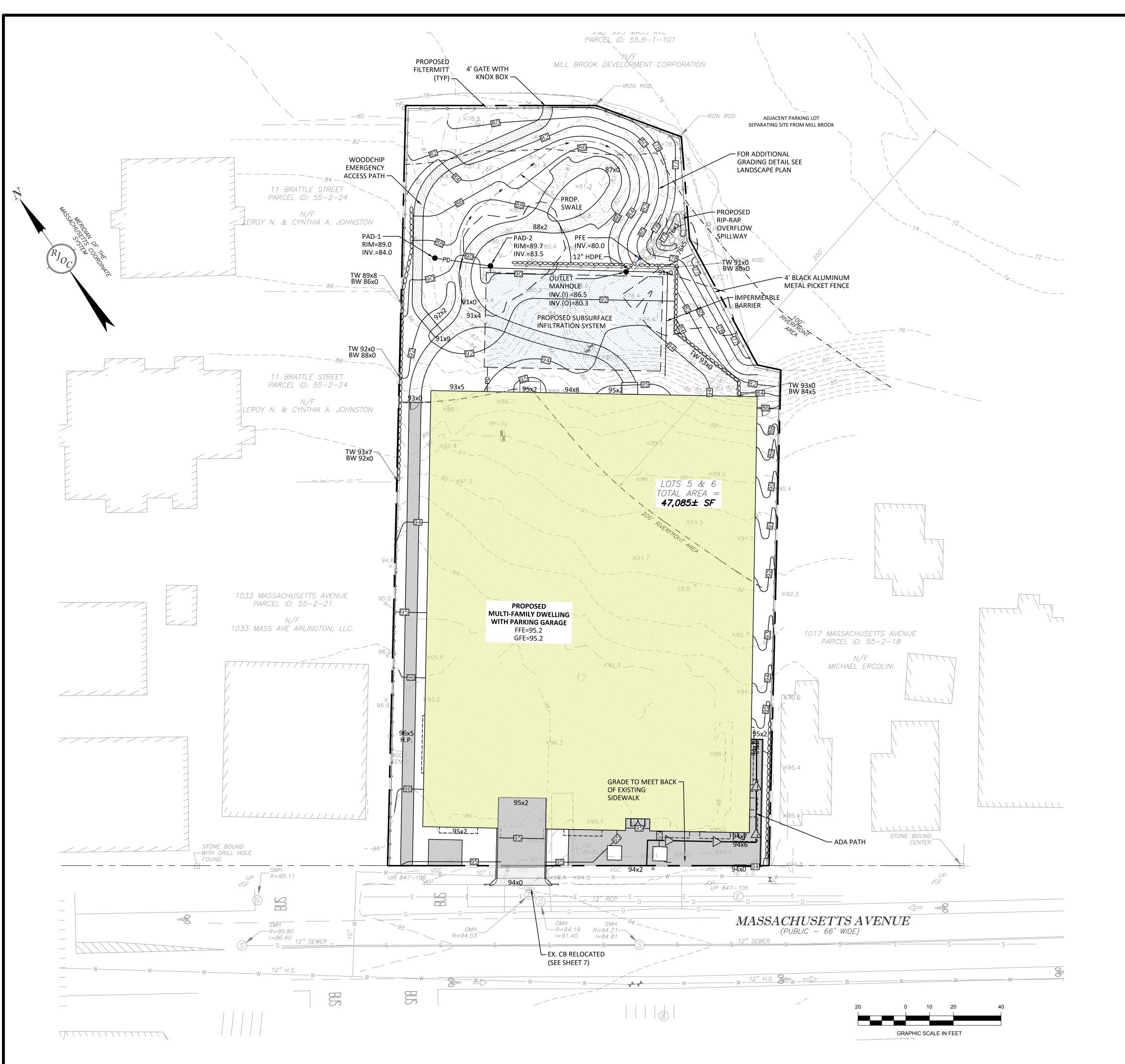
102

SHEET

4 OF 10







NOTES:

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- 2. THE HORIZONTAL DATUM I IS THE MASSACHUSETTS COORDINATE SYSTEM (NAD83), THE VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). DATUMS WERE ESTABLISHED USING RTK GPS METHODS.
- 3. THE POSITIONAL ACCURACY OF THE DATA AND PHYSICAL IMPROVEMENTS ON THIS PLAN MAY BE APPROXIMATE. ANY USE OF ELECTRONIC DATA CONTAINED IN AUTOCAD VERSIONS OF THIS PLAN TO GENERATE COORDINATES OR DIMENSIONS NOT SHOWN ON THE PLAN IS NOT AUTHORIZED.
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- 5. CONTOUR INTERVAL IS TWO FOOT (2').
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(NOT	LEGEN ALL FEATURES CONTAINED IN		PPEAR ON THE PLAN)	
		BOUNDARY LIN	NE	
		ABUTTING PROPERTY LINE		
S-		SEWER SERVICE		
D	D	DRAIN SERVICE WATER SERVICE		
W				
		GAS LINE		
E_	E	ELECTRIC LINE		
	Т	TELEPHONE LINE		
ohw	ohw ———	OVERHEAD WIRES		
X	X X	CHAIN LINK FEI	NCE	
	-000000000	STOCKADE FEN	NCE	
		INDEX CONTOU	JR	
		INTERMEDIATE	CONTOUR	
	UTILITY POLE	CC	CONCRETE CURB	
*	LIGHT POLE	VGC	VERTICAL GRANITE CURB	
	ELECTRIC HAND HOLE	<i>BCB</i>	BITUMINOUS CONCRETE CURB	
<u>©</u>	CABLE MANHOLE	HC	HANDICAP	
(\$)	SEWER MANHOLE	HPDE	HIGH DENSITY POLYETHYLENE	
D	DRAIN MANHOLE	CONC.	CONCRETE	
	CATCH BASIN	LSA	LANDSCAPE AREA	
×	WATER VALVE	•	DOOR	
₩	FIRE HYDRANT	d	SIGN	
0	SPRINKLER CONNECTION	(8)/(8C)	PARKING COUNT / COMPACT	
\circ	POST INDICATOR VALVE	0/60	NUMBER	
•	BOLLARD	(+ ;)	DECIDUOUS TREE	
П	GAS METER	2 : 50		
\bowtie	GAS VALVE		CONIFEROUS TREE	
	ROOF DRAIN	(REC)	FROM RECORD PLANS	
0	AREA DRAIN		RETAINING WALL	
	IRRIGATION CONTROL VALVE	00020000	RETAINING WALL	
×114.7	SPOT GRADE	00000000	DETECTABLE WARNING PAD	
#	TEST PIT	99x5	PROPOSED SPOT GRADE	
PSIS	PROPOSED SUBSURFACE INFILTRATION SYSTEM	<u>−99</u> •∞∞∞∞•	PROPOSED CONTOUR PROPOSED RETAINING WALL	
·XXXXXXXXXXXXXXX	PROPOSED FILTERMITT		TREE PROPOSED TO BE REMOVED	
			LIMIT OF RIVERFRONT AREA	
TYP	TYPICAL	PS	PROPOSED SEWER SERVICE	
PFE	PROPOSED FLARED END	PS	PROPOSED WATER SERVICE	
INV.	INVERT			
TW/	TOP OF WALL	——PD——	PROPOSED DRAIN LINE	

PROJECT SUMMARY						
47,085 S.F.						
50 UNITS						
PERCENT COVERAGE						
53%						
46%						
1%						
0%						
100%						
PARKING SUMMARY						
53 SPACES						
1.1						

— → PROPOSED SWALE

PROPOSED RETAINING
WALLS SHOWN HEREON TO
BE DESIGNED BY OTHERS

SITE GRADING AND DRAINAGE P
LOCATED IN
ARLINGTON, MA

SHEET 6 OF 10

PERMITTING S

DATE BY

NOVAK
CIVIL
NO. 50696

No. 50696

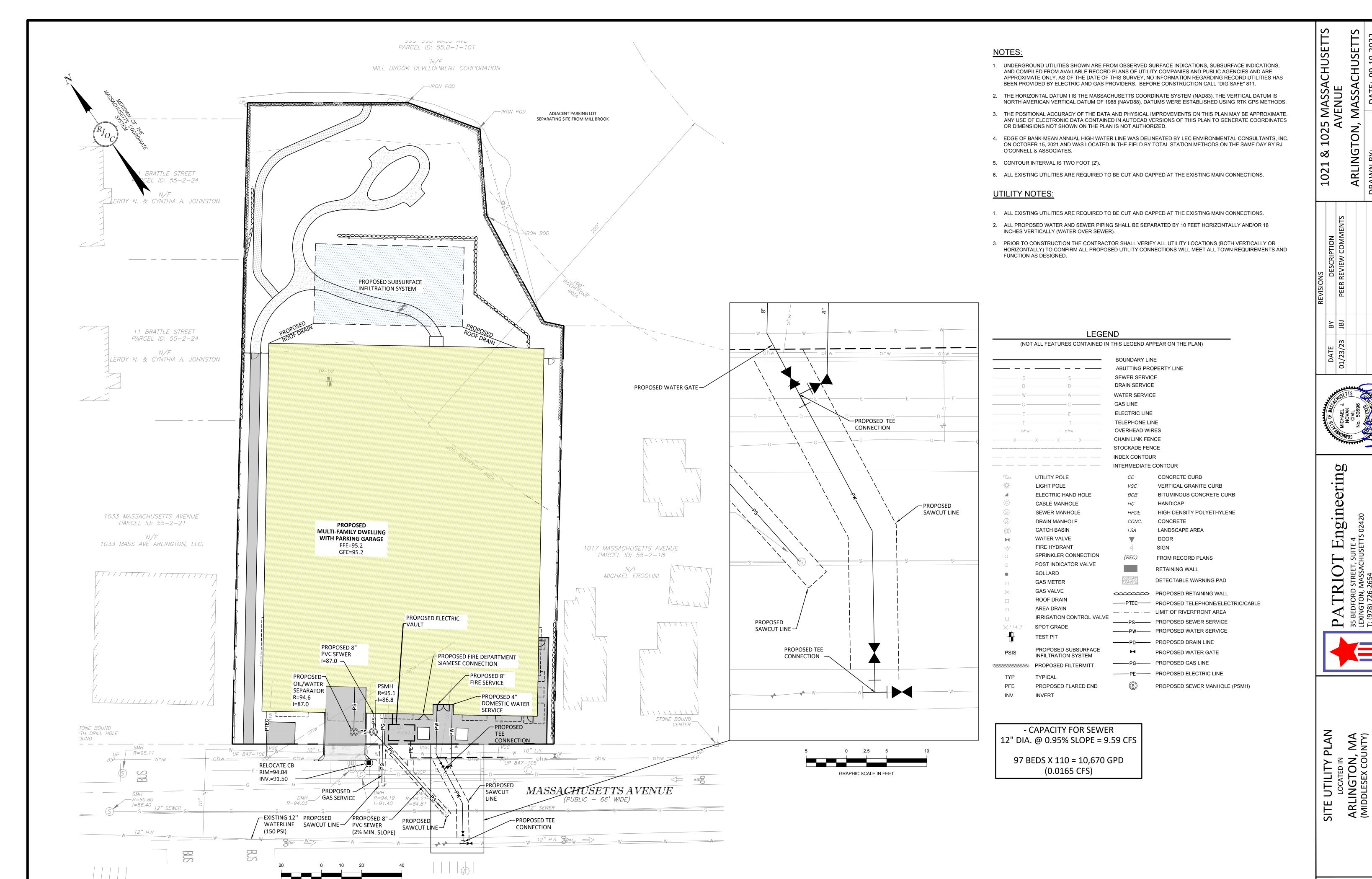
TRIOT Engineer

FORD STREET, SUITE 4
STON, MASSACHUSETTS 02420

25 MASSACHUSET AVENUE

102

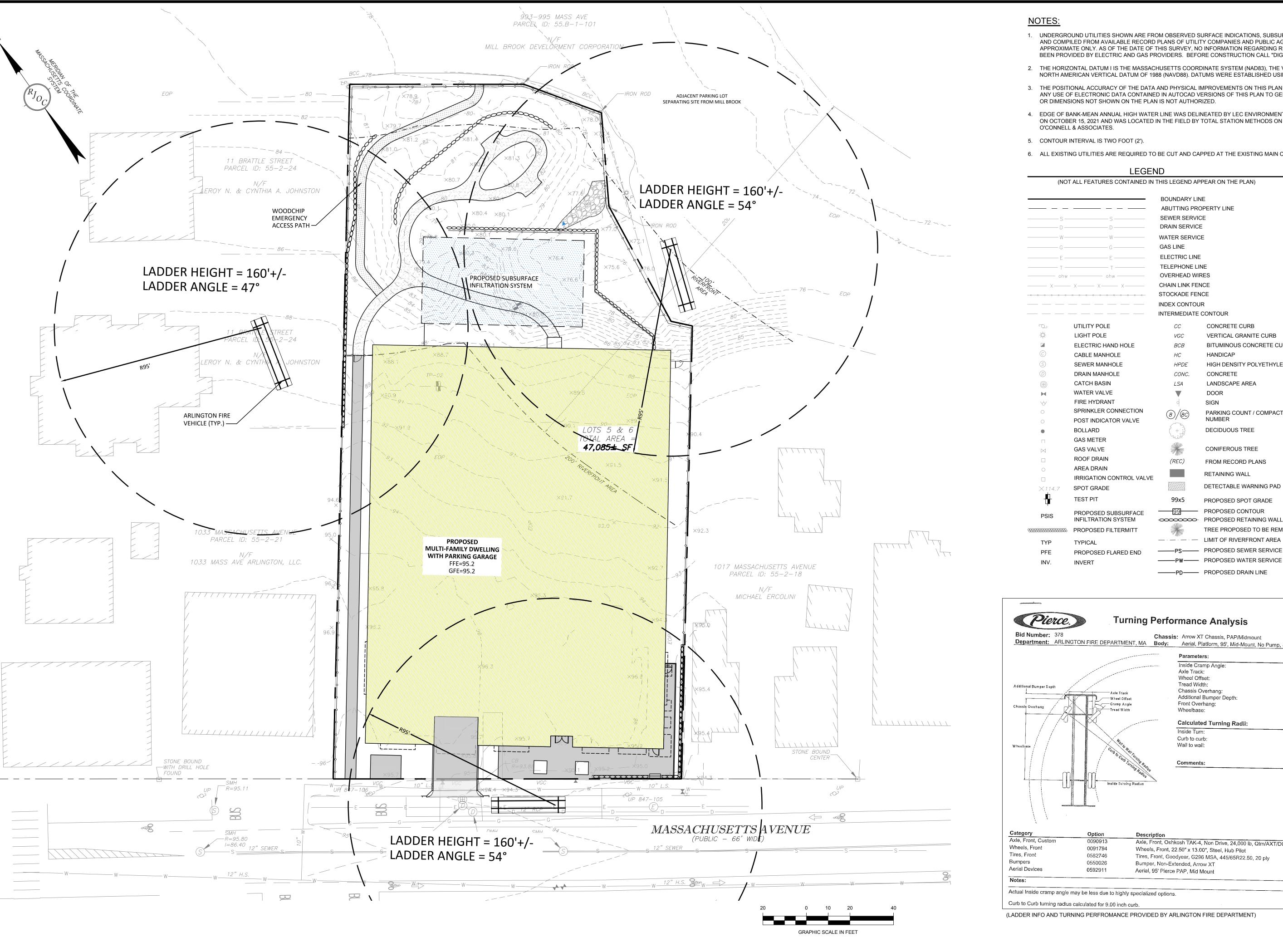
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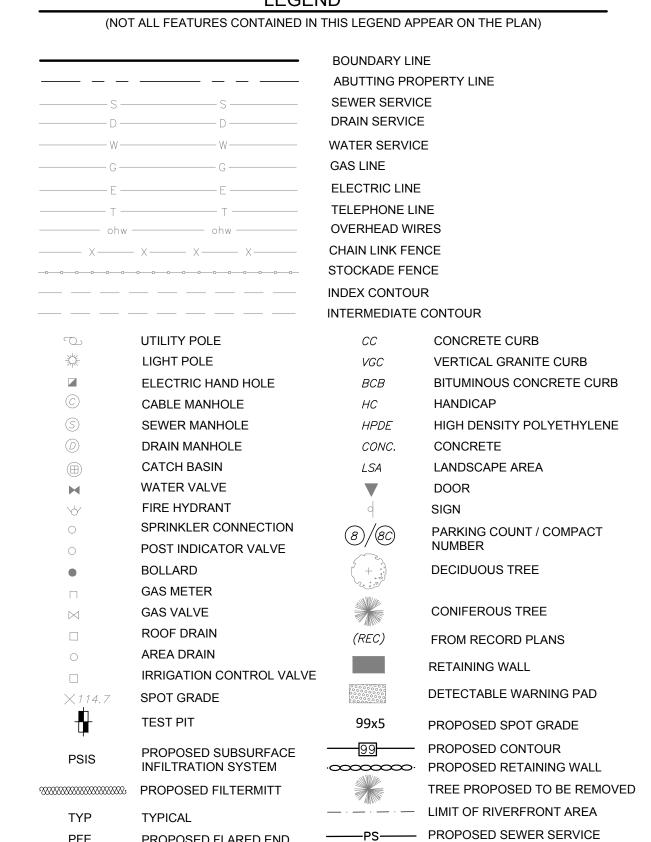
GRAPHIC SCALE IN FEET

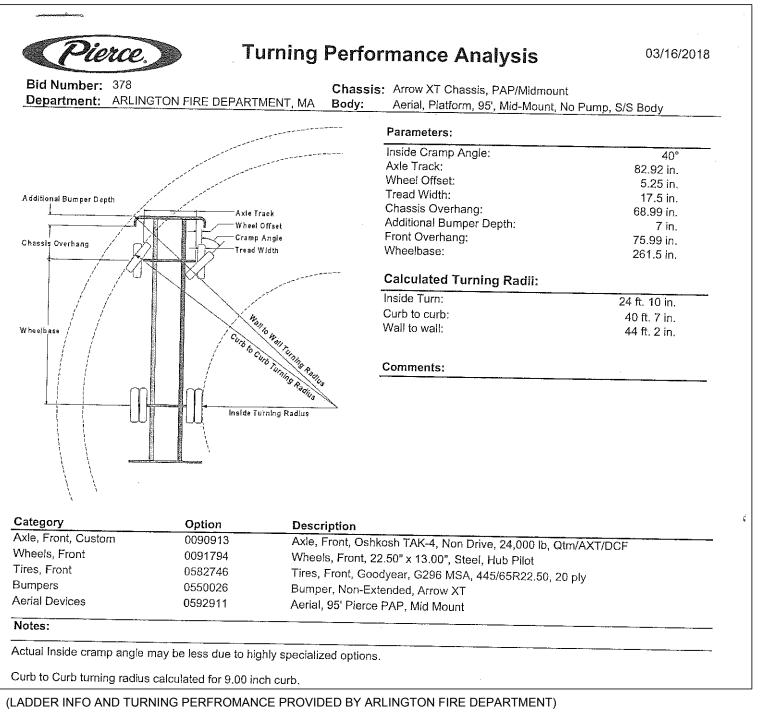
PERMITTING SET

SHEET **7** OF **10**



- 1. UNDERGROUND UTILITIES SHOWN ARE FROM OBSERVED SURFACE INDICATIONS, SUBSURFACE INDICATIONS, AND COMPILED FROM AVAILABLE RECORD PLANS OF UTILITY COMPANIES AND PUBLIC AGENCIES AND ARE APPROXIMATE ONLY. AS OF THE DATE OF THIS SURVEY, NO INFORMATION REGARDING RECORD UTILITIES HAS BEEN PROVIDED BY ELECTRIC AND GAS PROVIDERS. BEFORE CONSTRUCTION CALL "DIG SAFE" 811.
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- 6. ALL EXISTING UTILITIES ARE REQUIRED TO BE CUT AND CAPPED AT THE EXISTING MAIN CONNECTIONS.





PERMITTING SET

SHEET 8 OF 10

EMERGENCY ACCESS F

LOCATED IN

ARLINGTON, MA

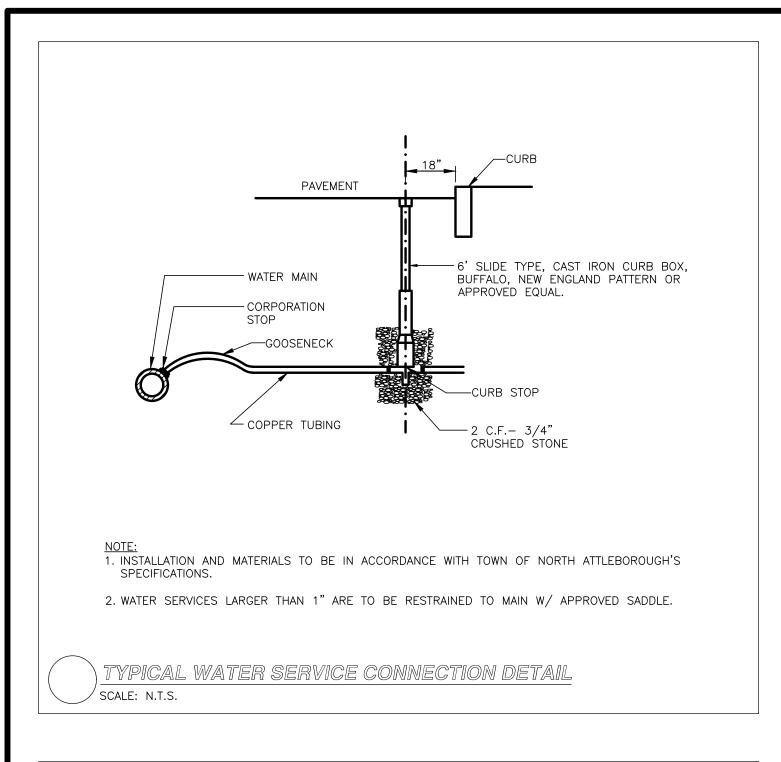
(MIDDLESEX COUNTY)

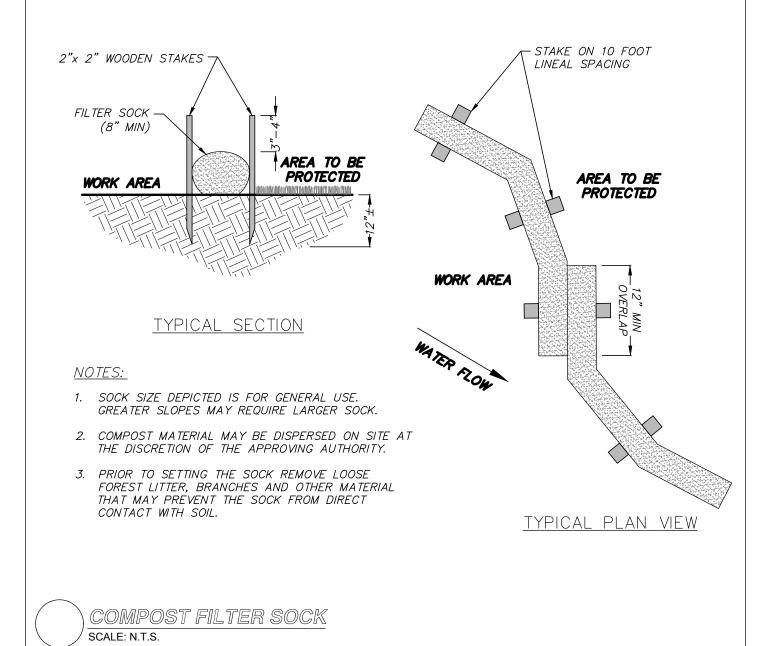
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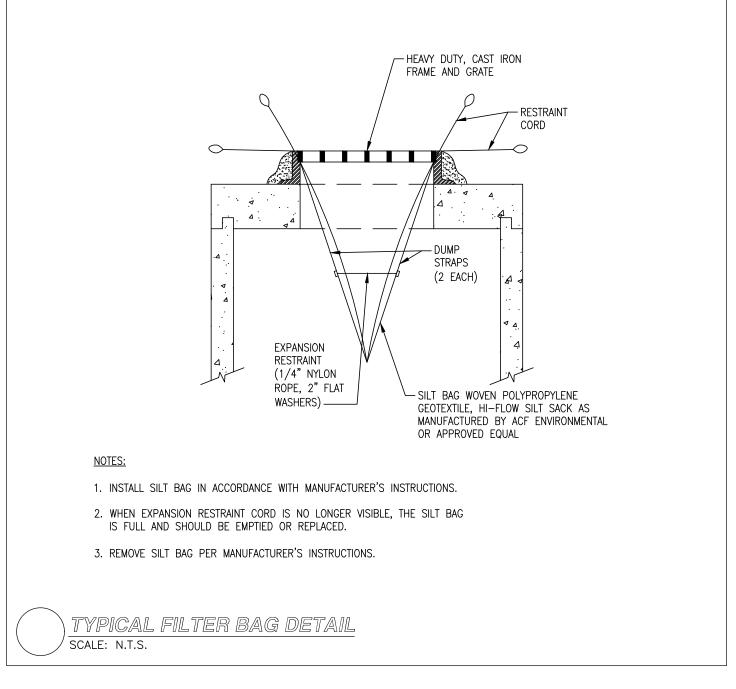
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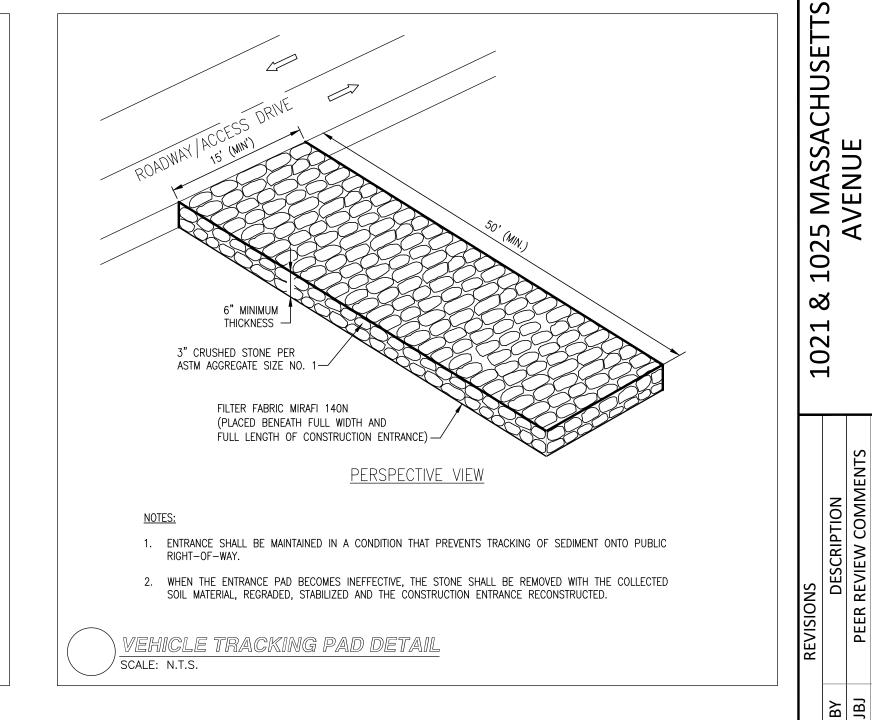
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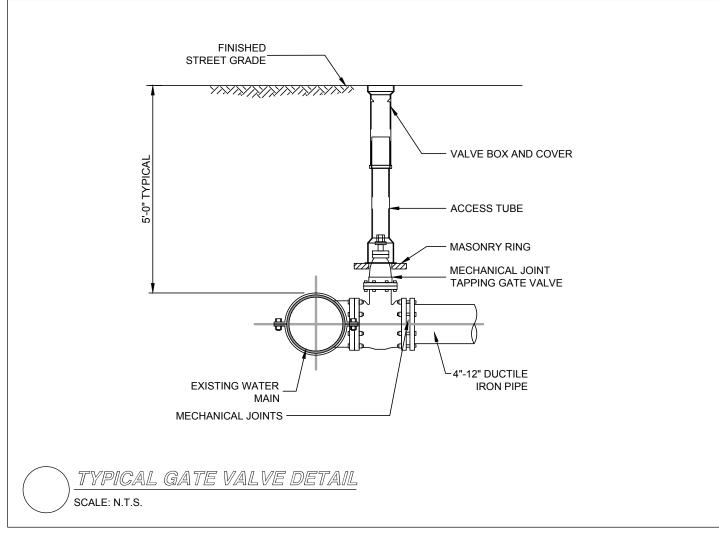
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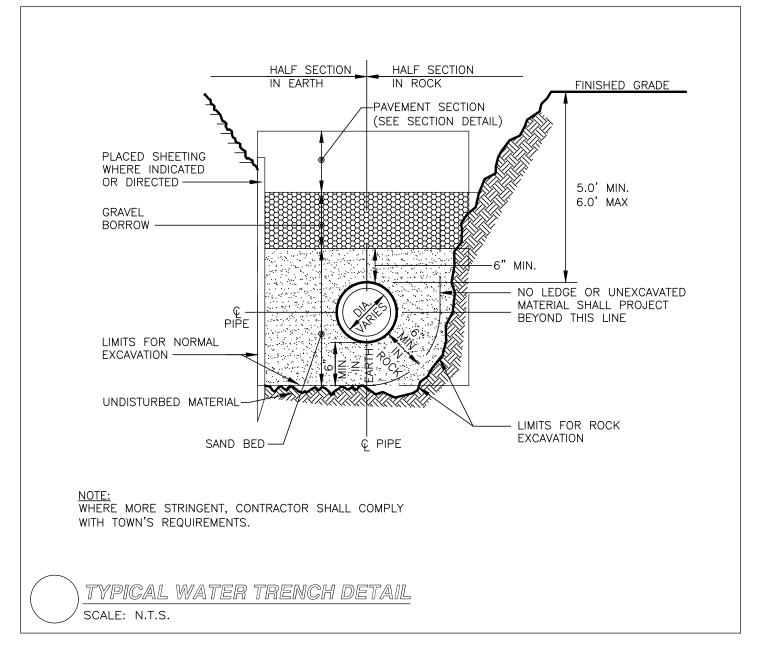


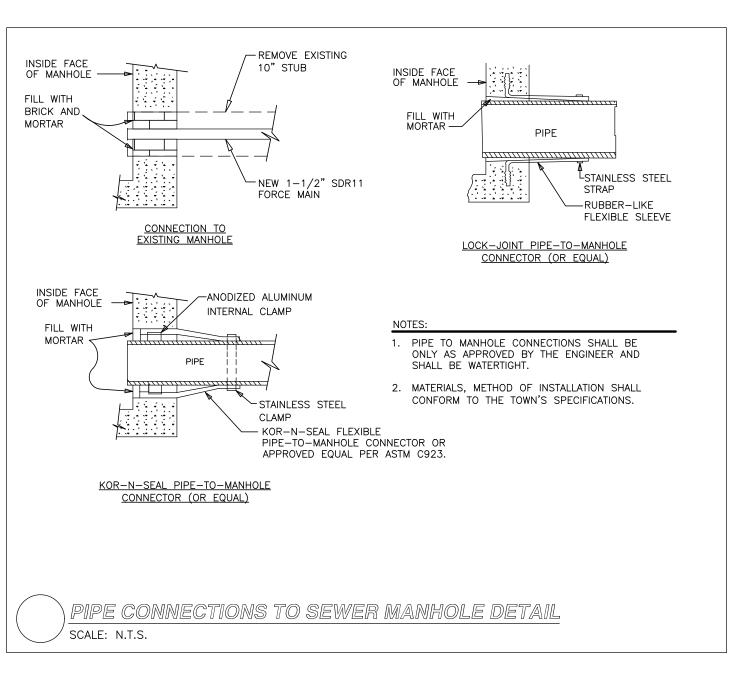


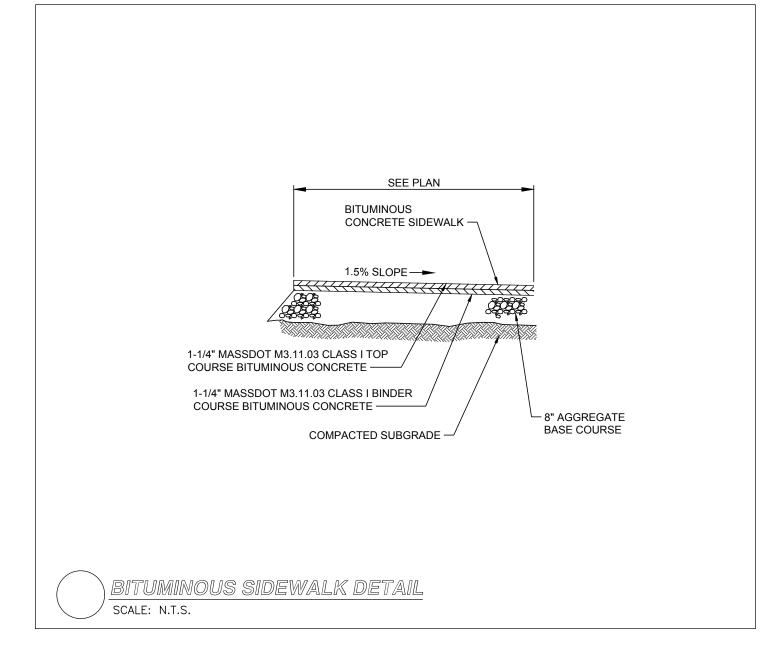


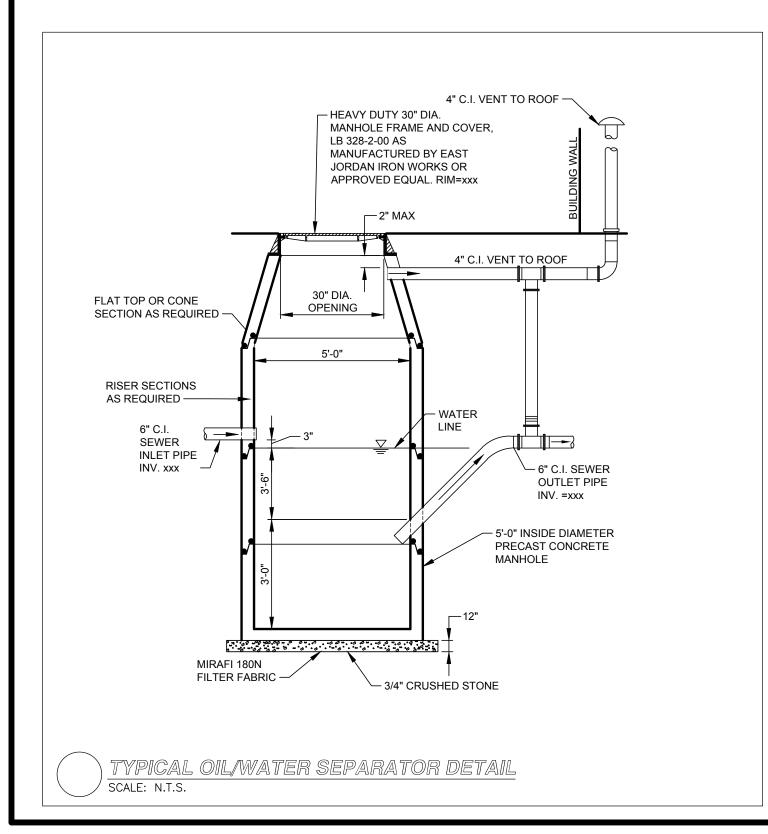


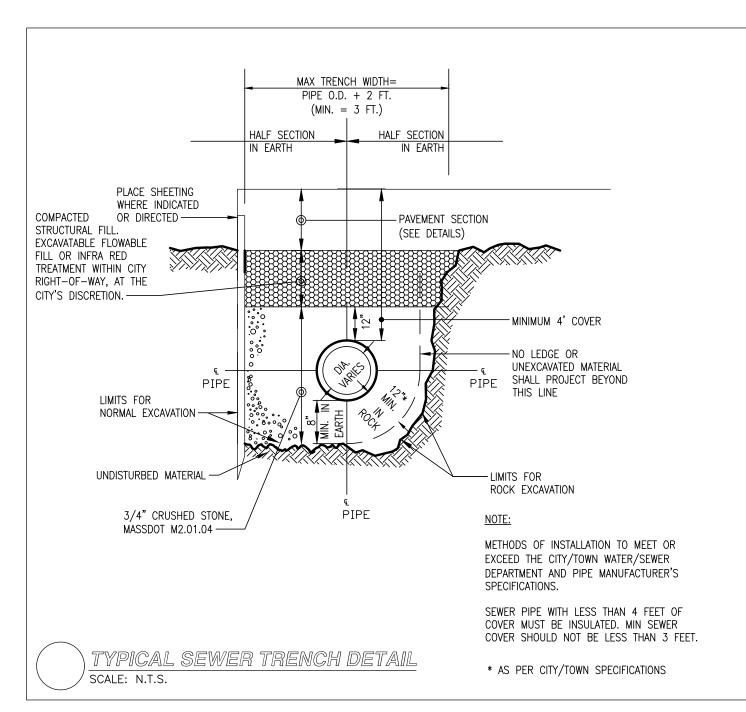


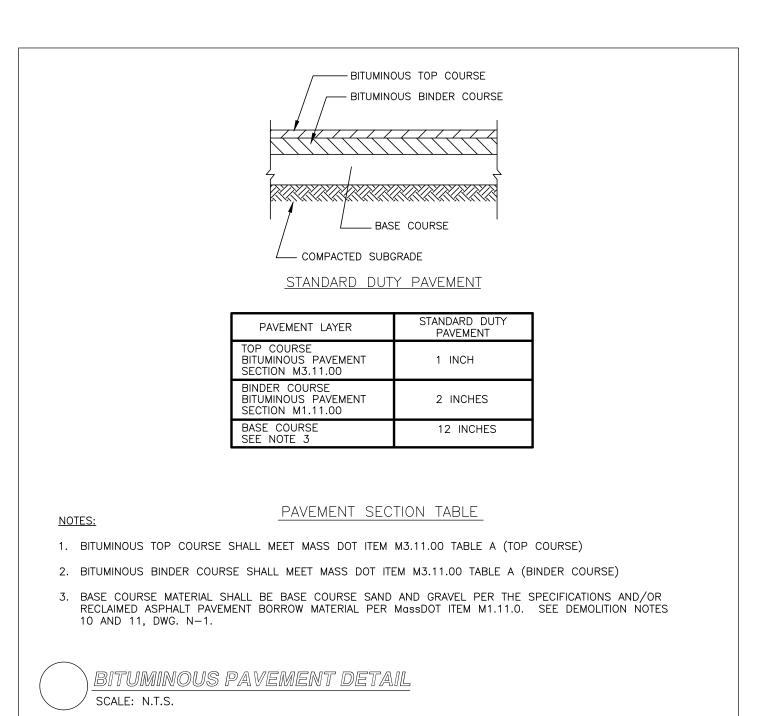


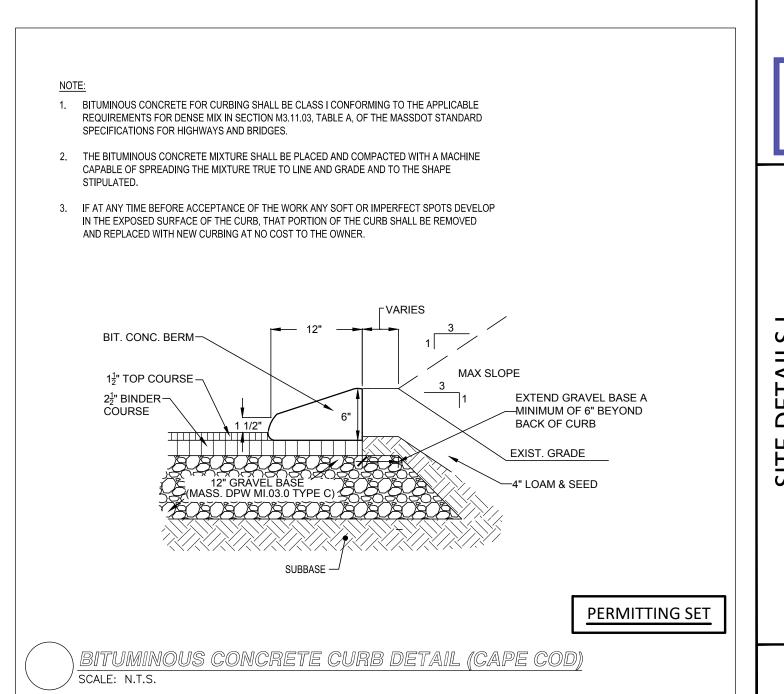


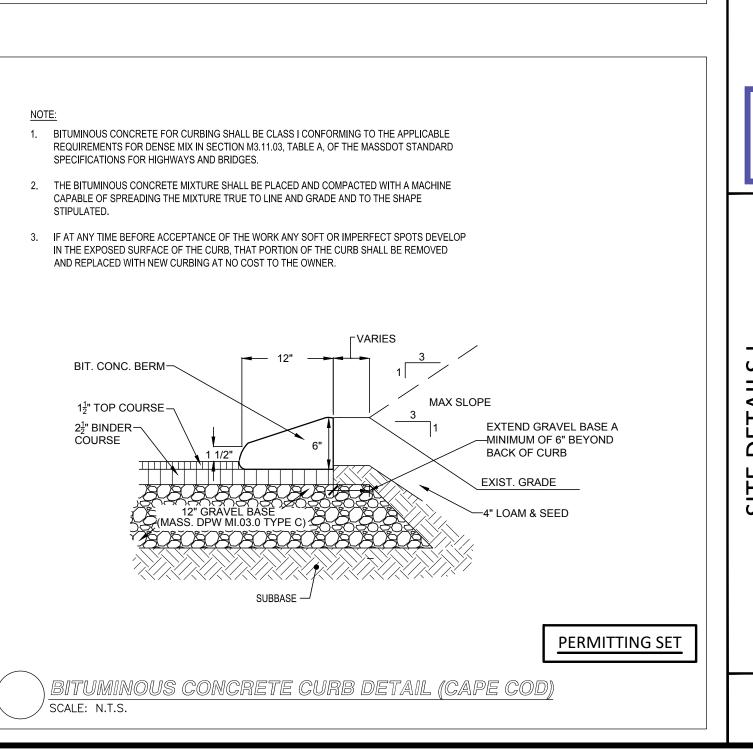












SITE DETAILS
LOCATED IN
ARLINGTON, N
(MIDDLESEX COUN SHEET

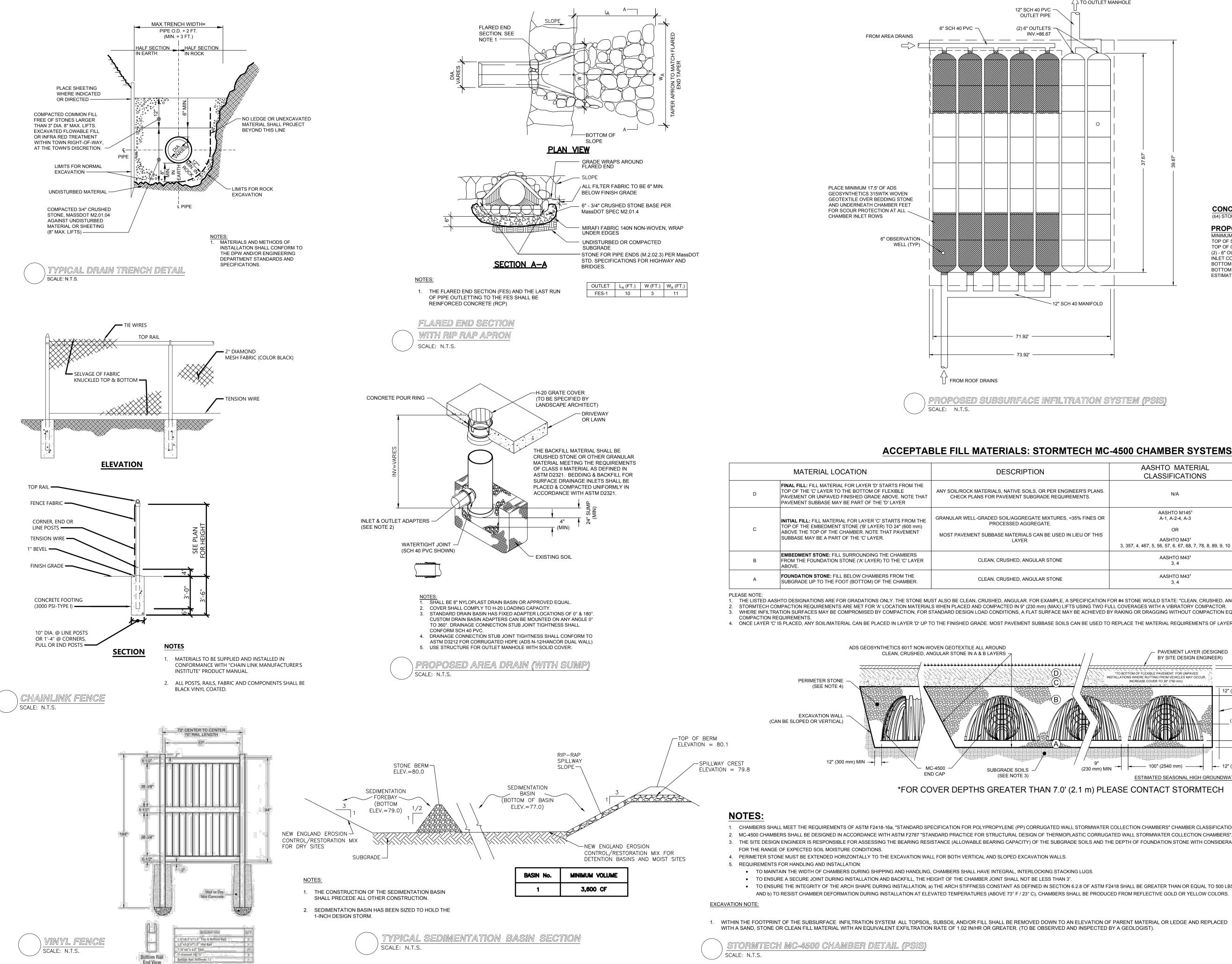
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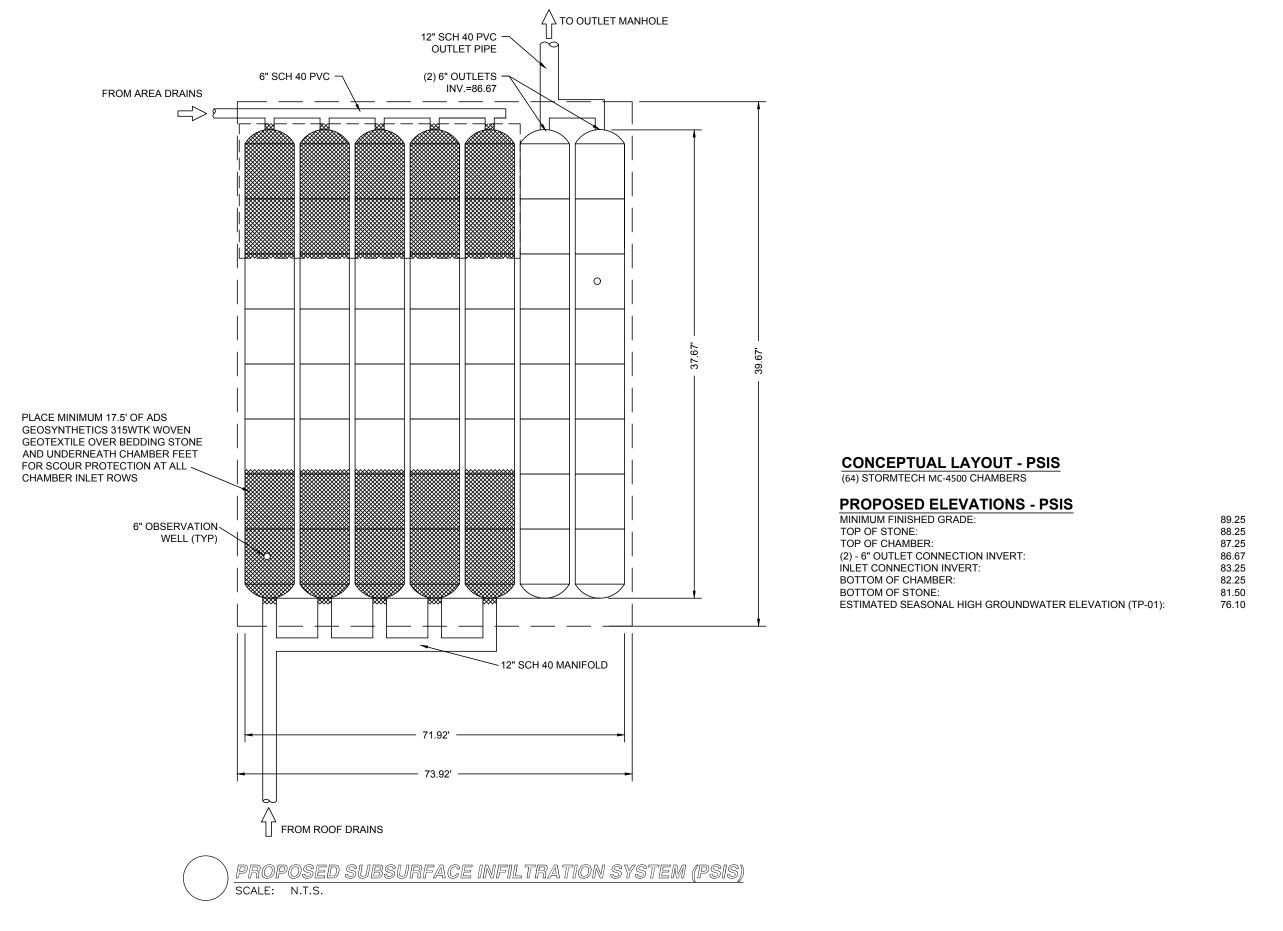
MASSACHUSE

TON,

19.

9 OF 10



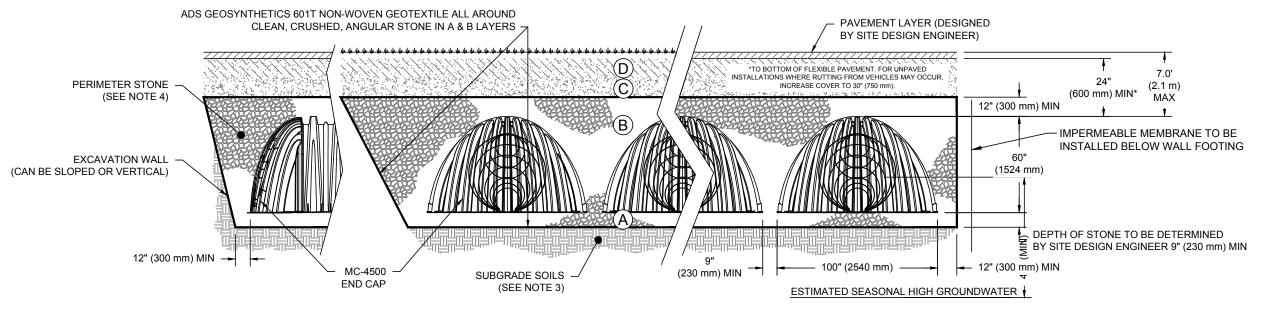


ACCEPTABLE FILL MATERIALS: STORMTECH MC-4500 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
С	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS I 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
В	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 4	NO COMPACTION REQUIRED.
Α	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".

- WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGNS, CONTACT STORMTECH FOR
- 4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



*FOR COVER DEPTHS GREATER THAN 7.0' (2.1 m) PLEASE CONTACT STORMTECH

- 1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 60x101
- 3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION
- 4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
- TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
- TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/IN/IN.

1. WITHIN THE FOOTPRINT OF THE SUBSURFACE INFILTRATION SYSTEM ALL TOPSOIL, SUBSOIL AND/OR FILL SHALL BE REMOVED DOWN TO AN ELEVATION OF PARENT MATERIAL OR LEDGE AND REPLACED WITH A SAND, STONE OR CLEAN FILL MATERIAL WITH AN EQUIVALENT EXFILTRATION RATE OF 1.02 IN/HR OR GREATER. (TO BE OBSERVED AND INSPECTED BY A GEOLOGIST).

25 MASSACHUSETTS AVENUE

102

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1021

ACHUSE

TON,